

SOV/56-34-6-18/51

.On the Solution of the Kinetic Equation for the Transfer of Neutrons or γ -Quanta With the Method of the Partial Probabilities

one. The second part of this paper contains an expression for the Green (Grin) function of the kinetic equation which has the form of multiple integrals. The above-mentioned equation is solved according to the usual method of the successive approximations which gives the possibility to obtain successively the solutions after 0, 1, 2 ... χ collisions. In the third part of this paper the results of the second part are generalized to an unsteady kinetic equation. Then the author reports on the solution of the kinetic equation for the transfer of gamma quanta and for the diffusion of thermal neutrons. This equation is nearly totally equivalent to that mentioned in the beginning of this paper. Then the Green (Grin) function for the diffusion of thermal neutrons is given. The fifth part of this paper deals with the moderation and diffusion of neutrons in a medium with constant free path length; it contains (as an example) the deduction of the exact spatial-energy distribution of neutrons which are moderated in a medium with constant free path length. The diffusion of thermal neutrons is a special case of the above-mentioned phenomena. The multiple integration is carried

Card 2/4

SOV/56-34-6-18/51

On the Solution of the Kinetic Equation for the Transfer of Neutrons or γ -Quanta With the Method of the Partial Probabilities

out according to the ordinary operator method and expansion with respect to Legendre (Lezhandr) polynomials is used. The author shows how it is possible to generalize the above-mentioned results to the case of variable free path length. At last the author reports on the hitherto existing methods which according to the author's opinion have the following disadvantages: 1) Their formalism does not correspond to the physical particularities of the phenomenon. 2) This formalism does not give the exact solution as a combination of the hitherto known functions and operators. The method of the partial probabilities introduces (in explicite form) a new physical variable - the number of the collisions of a particle with the nuclei of the medium, it describes the real physical phenomenon of the successive transfer of neutrons or gamma quanta. There are 7 references, 4 of which are Soviet.

ASSOCIATION: Vol'go-ural'skiy filial VNII Geofiziki (Volga-Ural -Branch of the All-Union Scientific Research Institute of Geophysics)

Card 3/4

SOV/56-34-6-18/51

On the Solution of the Kinetic Equation for the Transfer of Neutrons or γ -Quanta With the Method of the Partial Probabilities

SUBMITTED: December 12, 1957

Card 4/4

BAYEMBITOV, F.G.; GULIN, Yu.A.; DYAD'KIN, I.G.

Determining the height of the rising cement solution in wells
by the data of gamma-gamma logging, Razved.i prom.geofiz.
no.32:38-42 '59. (MIRA 13:4)
(Oil well logging, Radiation)

DYAD'KIN, I.G.

[Space-energy angular distribution of neutrons in multi-component unbounded media] Prostranstvenno-energeticheski-
uglovoe raspredelenie neutronov v mnogokomponentnykh bez-
granichnykh sredakh. Moskva, Glav.upr.po izpol'zovaniyu
atomnoi energii, 1960. 27 p. (MIRA 17:1)

S/089/61/010/001/001/020
B006/B063

AUTHORS: Dyad'kin, I. G., Batalina, E. P.

TITLE: Change in Time of Spatial and Energy Distributions of Neutrons From a Pulsed Source

PERIODICAL: Atomnaya energiya, 1960, Vol. 10, No. 1, pp. 5 - 12

TEXT: This is a theoretical study of the time dependence of spatial and energy distributions of neutrons emitted by a pulsating source. Such a problem may arise, e. g., in the geophysical detecting of petroleum layers. First, the nonsteady equation of motion describing the slowing down of pulsed neutrons is written and solved, after some transformations, by the method of stepwise integration. The solution obtained is applied to calculate the energy distribution, the change in time of spatial and energy distributions, and the mean square (r^2) of the slowing down mean free path. The formulas then obtained are again applied to treat a concrete problem with a variable mean free path. The distribution in time of neutrons of a given energy is shown to follow Picisson's probability distribution in the whole time interval. It may be seen from the

Card 1/2

Change in Time of Spatial and Energy Distributions of Neutrons From a Pulsed Source

S/089/60/010/001/001/020
B006/B063

correlations found to exist between time, space, and energy distributions that, in certain distance and time intervals, the space-energy and the energy-time methods are mutually independent with this method of core sampling. Outside this interval there is a correlation between the two distribution functions, which is formulated. The method of core sampling by means of pulsed neutrons has found wide application in the USSR. The layer forming the object of investigation is exposed for a short time to the neutrons emitted by a pulsed generator, after which the neutron density in the layer is measured for a certain time. Neutron distribution in space and time ($E_n = 1.5$ ev) was studied in an artificial layer ($\text{SiO}_2 + \text{m}\% \text{H}_2\text{O}$) as dependent on the water content. Results are shown in a graph and briefly discussed. There are 2 figures and 9 references.

SUBMITTED: February 29, 1960

Card 2/2

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KIN, I. G., Cand. Phys-Math. Sci. (diss) "Spatial-Energy-Angular Distribution of Neutrons in Multiple-Component Environments." Moscow, 1961, 12 pp. (Moscow Engineering-Physics Instit.)
140 copies (KL Supp 12-61, 250).

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

33007
S/641/61/000/000/001/033
B112/B138

24.6500

AUTHOR: Dyad'kin, I. G.

TITLE: Solution of Wick's problem and the corresponding partial probabilities of neutron transition

SOURCE: Krupchitskiy, P. A., ed. Neytronnaya fizika; sbornik statey, Moscow, 1961, 3-13

TEXT: The collision density $\Psi(R, \mu, u)$ of neutrons which are emitted from point isotropic and monochromatic sources is expressed by elementary functions. In an earlier paper (ZhETF, 34, 1504 (1958)), this distribution was found to be equal to

$$\sum_{a=0}^{\infty} \frac{(2a+1)i^a}{2\pi^2 1^3} p_a(\mu) \frac{1}{2\pi i} \int_{c-i\infty}^{c+i\infty} dp e^{p^u} \int_0^{\infty} k^2 dk \left(\frac{q_L}{E-\eta} \right)_{0a} \frac{1}{\sqrt{A_a(p)A_0(p)}} J_a^*(kR),$$

where η is a symmetric infinite matrix, consisting of the elements

$$N_{ab} = \sqrt{A_a(p)A_b(p)} (i/k) D_{ab}(i/k) (D_{ab}(x) - p_a(x)Q_b(x)) \text{ for } b \geq a,$$

Card 1/3

33007

Solution of Wick's problem ...

S/641/61/000/001/033
B112/B138

$D_{ab}(x) = Q_a(x)P_b(x)$ for $b \leq a$. $P_a(x)$ and $Q_a(x)$ are Legendre functions, $J_a^*(y) = \sqrt{\pi/2y} J_{a+1/2}(y)$ are Bessel functions, and $A_a(p)$ are the Laplace transforms of the expansion coefficients of the scattering function in a series of Legendre polynomials. The following result is obtained:

$$\left(\frac{\pi\ell}{E-\pi\ell}\right)_{oa} = \frac{(-1)^a \text{minor } \Delta_n^{(1)}}{\Delta_n^{(1)}} - \delta_{oa}, \quad \text{where}$$

$$\begin{aligned} \Delta_1(1) &= 1 - A_0(p) \frac{\arctg k}{k}, \\ \Delta_2(1) &= \Delta_1(1) + \frac{A_1(p)}{k^2} \left(\frac{\arctg k}{k} - 1 \right) [1 - A_0(p)], \\ \Delta_3(1) &= \Delta_2(1) + \frac{A_2(p)}{4k^2} \left(\frac{3+k^2}{k} \arctg k - 3 \right) \times \\ &\quad \times [-3 - k^2 + 3A_0(p) + A_1(p) - A_0(p)A_1(p)], \\ \Delta_4(1) &= \Delta_3(1) + \frac{iA_3(p)}{2k^2} \left(\frac{i}{k} \right) \times \\ &\quad \times \left[2k^3 P_3\left(\frac{i}{k}\right) + iA_0\left(5k - \frac{4}{3}k^3\right) + \dots \right]. \end{aligned} \quad (22)$$

Card 2/3

Solution of Wick's problem

3300?
S/641/61/000/000/001/033
B112/B138

There are 5 references: 2 Soviet and 3 non-Soviet. The three references to English-language publications read as follows: Wick G. Phys. Rev., 75, 738 (1949). Verde M., Wick G. Phys. Rev., 71, 852 (1947). Marshak R. Rev. Mod. Phys., 19, 185 (1947).

Card 3/3

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KIN, I.O.; BATALINA, E.P.

Time variation of the space and energy distribution of the neutrons
from a pulsed source. Atom. energ. 10 no.1:5-12 Ja '61.

(MIRA 13:12)

(Neutrons)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

24,6500

08/62/000/005/028/119
A001/A101

AUTHOR: Dyad'kin, I. G.

TITLE: The solution of Vick's problem and corresponding partial probabilities of neutron transfer

PERIODICAL: Referativnyy zhurnal, Fizika, no. 5, 1962, 41, abstract 5B325 (v sb. "Neytrot. fizika", Moscow, Gosatomizdat, 1961, 3-13)

TEXT: In correspondence with formulation of Vick's problem it is assumed that: 1) Medium is infinite, multi-component; 2) the free-path length of neutrons in the medium is independent of energy; 3) neutron scattering is symmetrical in the center-of-inertia system; 4) the process is stationary. Collision probability from a point-like, isotropic and monoenergetic source is represented in the form of the sum of partial probabilities. The latter are proportional to probabilities of neutron transfer from one point of phase space to another after n collisions. Partial probability can be represented by the double Fourier-Laplace integral of a certain matrix element. Explicit expressions of these matrix elements in terms of elementary functions are found in the paper by means of matrix calculus formalism. Vick's problem has been solved for

Card 1/2

The solution of Vick's problem ...

S/058/62/000/005/028/119
A001/A101.

the scattering function of any desired degree of approximation. The formulae obtained admit of numerical calculations. If a reasonable number of harmonics in the scattering function is taken, one can dispense with the use of high-speed computers. *B*

Gorgel'son

[Abstracter's note: Complete translation]

Card 2/2

32975
S/641/61/000/000/002/033
B112/B138

24.6500

AUTHOR: Dyad'kin, I. G.

TITLE: Distance-angle-energy distribution of neutrons in unbounded
mediums with more than one component

SOURCE: : Krupchitskiy, P. A., ed. Neytronnaya fizika; sbornik statey.
Moscow, 1961, 14-29

TEXT: The author derives general expressions for the distance-angle-energy distribution of neutrons in a medium with more than one component of the nuclear composition. Cases of low nuclear weights and variable effective neutron scattering cross-section are taken into account. Together with two previous papers by the author (ZhETF, 34, 1504 (1958) and the given volume, page 3), this one contains generalizations of ideas inaugurated by Plachek (cf. Marshak R. Rev. Mod. Phys., 19, 185 (1947)), H. Bethe (see below), and M. V. Maslennikov (Doklady AN SSSR, 120, 59 (1958)). The most important formula is:

$$N(r, \Omega, u) = \frac{Y_0 a_0^2 e^{a_0 \beta u}}{2\pi^2 u l^2 \sqrt{r^2 l^{-2} + \beta^2 u^2}} K_1(a_0 \sqrt{r^2 l^{-2} + \beta^2 u^2}) +$$

Card 1/3

Distance-angle-energy distribution ...

32975
S/641/61/000/000/002/033
B112/B138

$$+ \sum_{a=1}^{\infty} \frac{\gamma_0 a_a^{2+a} e^{a\alpha\beta u} (rl^{-1})^a}{2\pi^2 v l^2 \sqrt{(r^2 l^{-2} + \beta^2 u^2)^{a+1}}} K_{1+a} (a_a \sqrt{r^2 l^{-2} + \beta^2 u^2}) \times \\ \times p_a \left(\frac{r\Omega}{r} \right) \sum_{a=0}^{\infty} \frac{\gamma_{aa} a_a^{2+a} (rl^{-1})^a \exp(a_a \beta u - a_a \sqrt{r^2 l^{-2} + \beta^2 u^2})}{2\sqrt{2\pi} v l^2 \sqrt{(r^2 l^{-2} + \beta^2 u^2)^{a+1/2}}}, \quad (25)$$

where

$$\gamma_{00} = -\frac{1}{A'_0(0)} = \frac{1}{\xi};$$

$$\gamma_{01} = \frac{1}{\xi \left[1 - \frac{A_1(0)}{3} \right]} = \frac{1}{\xi (1 - \cos \theta)};$$

$$\gamma_{02} = \frac{1}{\xi (1 - \cos \theta) \left[1 - \frac{A_2(0)}{5} \right]} \dots, \quad (26)$$

$$\xi = \sum_M C_M \xi_M = \sum_M C_M \frac{2}{M} \times \\ \times \left\{ 1 - \frac{2}{M+1} \left[1 + \frac{3}{5(M+1)} + \frac{8}{15(M+1)^2} + \dots \right] \right\}; \quad (27)$$

$$\beta \approx \frac{2}{3a\xi(1-\cos\theta)},$$

Card 2/3

Distance-angle-energy distribution

32975
S/641/61/000/000/002/033
B112/B138

and $\overline{\cos\psi} = \sum_M C_M^2/M$ is the mean scattering cosine. 1 and $C_M = l/l_M$ are neutron parameters, $A_a(p)$ are the Laplace transforms of the coefficients of the expansion of the neutron scattering function into a series of Legendre functions. E. Batalina, D. Santo, and A. Gaynanshin are thanked for carrying out the numerical computations, Yu. Gulin, A. Zolotov, V. Zakharchenko, and Yu. Bulashevich for discussing the results of this paper. There are 3 figures, 2 tables, and 11 references: 6 Soviet and 5 non-Soviet. The four most recent references to English-language publications read as follows: Schweber S., Bethe H., Hofman F. Mesons and fields (1957); Verde M., Wick G. Phys. Rev. 71, 852 (1947); Wick G. Phys. Rev. 75, 738 (1948); Bethe H., Tonks L., Hurwitz H. Phys. Rev. 80, 11 (1950). ✓

Card 3/3

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

REZVANOV, R. A., KANTER, Solomon A., DUMAIC, S. A., DYADKIN, I. G., and
KOBLEVICH, D. A.

(+)

"Some theoretical problems of neutron well-leaving."

report to be submitted after the Conference on Nuclear Geophysics,
Krakow, Poland, 24-30 Sept 1962.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000411710019-7

DIAKIN, I. G., BULASHEVICH, Yu. P. and VOSKOBONYIKOV, G. M.

(2)

"Some problems in the theory of gamma-gamma logging."

report to be submitted for the Conference on Nuclear Geophysics,
Krakow, Poland, 24-30 Sept 1962.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000411710019-7"

DYAD'KIN, I.G.; LISENENKOV, A.T.; ZVEREV, G.N.

Mathematical experiment for solving certain geophysical problems.
Izv. AN SSSR. Ser. geofiz. no.11:1694-1698 N '63. (MIRA 16:12)

1. Volgo-Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta geofizicheskikh metodov razvedki.

DYAD'KIN, I.G.; LISINENKOV, A.T.

Calculation of a dose of neutrons from a polonium-beryllium source on the surface of a protective covering of paraffin up to 60 cm thick. Prikl. geofiz. no.36:233-235 '63. (MIRA 16:9)
(Neutrons--Scattering)

DYAD'KIN, I.G. (Oktyabr'skiy); LISENENKOV, A.T. (Oktyabr'skiy);
PONYATOV, G.I. (Oktyabr'skiy)

Speeding up the convergence of the Monte Carlo method in solving
radioactive logging problems. Zhur. vych. mat. i mat. fiz. 5
no.4:763-768 Jl-Ag '65. (MIRA 18:8)

L 22016-66 EWT(d)/T IJP(c)

ACCESSION NR: AP5025118

UR/0208/65/005/005/0936/0938

AUTHOR: Dyad'kin, I. G. (Уф); Starikov, V. N. (Уф)

3/

TITLE: Possibility of economizing on machine computation time in solving
Laplace equations by Monte-Carlo method

B

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 5, no. 5,
1965, 936-938TOPIC TAGS: Dirichlet problem, Laplace equation, random walk problem, Monte Carlo
methodABSTRACT: The random walk method on spheres was used to solve Dirichlet's problem
of three-dimensional Laplace equations in a domain D, bounded by a closed surface
S, on which a potential was given. The essential idea for the two-dimensional case
was described by N. P. Buslenko and Yu. A. Shroeder (Method of statistical tests,
N., Fizmatgiz, 1961.) which was easily generalized for the three-dimensional case,
due to the fact that the potential V at the center of the sphere was related to the
potential V(θ, φ) on the sphere by

$$V = \frac{1}{4\pi} \int \sin \theta d\theta \int_0^{2\pi} d\varphi V(0, \varphi),$$

Card 1/2

UDC: 518:517.39

2

L 22016-66

ACCESSION NR: AP5025118

where θ and φ were angular coordinates of a point on the sphere. Thus, starting at the point A, it was possible to take the first step with equal probability to any point on the sphere Σ_1 of radius R_1 equal to the minimum distance from A to the surface S. Taking this point for the center of the sphere, the random walk had to be continued on the tangents S of the sphere Σ_i of radius R_i , $i=1,2,\dots$ until condition $R_i < \epsilon$ was satisfied, where ϵ was a preassigned small number. The potential of the point of contact of the last Σ_i with S would then be the random realization of the potential V_A . Orig. art. has: 1 formula and 1 table.

ASSOCIATION: none

SUBMITTED: 25Dec64

NO REF SOV: 002

Card 2/2 ✓

ENCL: 01

SUB CODE: /2

OTHER: 000

ACC NR: AR6035369

SOURCE CODE: UR/0271/66/000/009/B007/B007

AUTHOR: Dyad'kin, I. G.; Rizvanova, N. A.; Pogorelova, N. A.

TITLE: Random-number algorithms for the "Razdan-2" computer

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 9B44

REF. SOURCE: Uch. zap. Bashkirsk. un-t, vyp. 20, 1965, 132-139

TOPIC TAGS: random-number generator, algorithm, computer component, ^{digital}computer, computer programming/Razdan-2 computer

ABSTRACT: Four algorithms and programs for obtaining pseudorandom numbers for the "Razdan-2" digital computer are described. Results of a check on the algorithms for periodicity and randomness are given. 4 tables. Bibliography, 4 titles. G. V.

SUB CODE: 09

Card 1/1

UDC: 518.5:681.142.32.001

DYAD'KIN, K.P., kandidat meditsinskikh nauk

Aid of medical institutes to organs of public health. Sov. zdrav.
13 no.3:33-36 My-Je '54. (MIRA 7:8)

1. Zam. nachal'nika Upravleniya uchebnymi zavedeniyami Ministerstva
zdravookhraneniya RSFSR.
(PUBLIC HEALTH,
*in Russia, aid by med. institutes to local branches of
pub. health)

DYAD'KIN, K.P., docsent [deceased]

Novocaine therapy in visceral pain syndromes as clinic treatment of
internal diseases. Sov.med. 21 no.5:88-93 My '57. (MLRA 10:7)
(PROCaine, admin.
in visceral pain synd., various methods)

TROYININ, Mitrofan Fedorovich; USHAKOV, Nikolay Stepanovich; DYAD'KIN,
Ye.I., inzh., retsenzenter; VEREVKIN, N.S., kand.tekhn.nauk,
red.; DUDUSOVA, G.A., red.izd-va; SHCHETININA, L.V., tekhn.red.

[Electric trucks] Elektrokary. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1960. 155 p. (MIRA 13:10)
(Industrial electric trucks)

DYAD'KIN, Yu. D.

DYAD'KIN, Yu. D.: "The conditions of thermal exchange in the purification chambers of underground mines as a basis for selecting the system of cooling mine air". Leningrad, 1955. Min Higher Education USSR. Leningrad Order of Lenin and Order of Labor Red Banner Mining Inst, Chair of Working Stratified Deposits. (Dissertations for the Degree of Candidate of Technical Sciences.)

So: Knizhnaya letopis' No. 49, 3 December 1955. Moscow.

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KIN, Yu.D., kand.tekhn.nauk

Methods of thermal calculation of mine air. Nauch. dokl. vys.
shkoly; gor. delo no.1:115-125 '58. (MIRA 11:6)

1.Predstavlena Leningradskim gornym institutom.
(Mine ventilation) (Temperature)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KIN, Yu.D.

Practical system of cooling mine air. Zap. LGI 38 no.1:l23-138
1959 (MIRA 14:3)
(Donets Basin—Coal mines and mining—Air conditioning)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KIN, Yu.D.

Length of stoping faces in deep mines in the Donets Basin.
Zap. LGI 38 no.1:139-156 1959 (MIRA 14:3)
(Donets Basin—Stoping (Mining))

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

DYAD'KIN, Yu.P., kand.tekhn.nauk

Method of selecting a face length with calculation of the heat factor. Izv.vys.ucheb.zav.; gor.zhur. no.2;5-10 '60. (MIRA 14;5)

1. Leningradskiy gornyy institut.
(Mining engineering)

MÜSTEL', P.I.; DYAD'KIN, Yu.D.; BOKIY, B.V.; KELL', L.N.; KOMAROV, V.B.;
SEMEVSKIY, V.N.; BORISOV, D.F.; GOLOVIN, G.M.; USEVICH, I.V.;
DUBRAVA, T.S.; SHABLYGIN, A.I.; ZOLTOLAREV, N.D.; GALAYEV, N.Z.;
SIGACHEV, A.Ye.; PANENKOV, Yu.I.; SENUK, D.P.; KOPYLOVA, Ye.V.

Pavel Ivanovich Gorodetskii; an obituary. Gor zhur. no.5:77 My '60.
(MIRA 14:3)

(Gorodetskii, Pavel Ivanovich, 1902-1950)

DYAD'KIN, Yu.D., kand.tekhn.nauk

Heat factor calculation in planning deep mines. Trudy Sem.po
gor.teplotekh. no.347-56 '61. (MIRA 15:4)

1. Leningradskiy gornyy institut.
(Mine ventilation)

DYAD'KIN, Yu.D.

Expediency and ways of increasing the load on a layer in deep
Donets Basin mines. Zap. LGI 46 no.1:85-90 '62.
(MIRA 16:6)
(Donets Basin---Mine ventilation)

DYAD'KIN, Yu. D., dotsent

Features of the heat conditions of mines in the permafrost
zone. Izv. vys. ucheb. zav.; gor. zhur. 5 no.8:82-88 '62.
(MIRA 15:10)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo
Znameni gornyy institut imeni G. V. Plekhanova. Rekomendovana
kafedroy razrabotki plastovykh mestorozhdeniy.

(Mine ventilation)
(Noril'sk region—Frozen ground)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KIN, Yu.D.; MODESTOV, Yu.A.; KAREPIN, B.G.; VESTERMAN, G.M.

Operation of a protective shield under the effect of impact
loads in free roof caving. Zap. LGI 48 no.1:64-72 '63.
(MIRA 17:8)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

DYAD'KIN, Yu.D., kand. tekhn. nauk, otv. red.; ZIL'BERBORD, A.F.,
kand. tekhn. nauk, otv. red.

[Thermal and mechanical processes in mining minerals; min-
ing operations in a massif of frozen ground] Teplovye i me-
khanicheskie protsessy pri razrabotke poleznykh iskopaemykh;
gornye raboty v massive merzlykh porod. Moskva, Nauka,
1965. 266 p. (MIRA 18:5)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut
merzlotovedeniya. 2. Institut merzlotovedeniya Sibirskogo
otdeleniya AN SSSR (for Zil'berbord). 3. Leningradskiy gor-
nyy institut (for Dyad'kin).

DYAD'KINA, I.Ya.

Quartz genesis in the large quartz lode of the Dagestan Nukatl' Range. Sber.nauch.rab.stud. LGI no.2:34-41 '57.
(MIRA 13:4)

1. Leningradskiy ordenov Lenina i Trudovogo Krasnogo Znameni gornyy institut im. G.V.Plekhanova. Predstavlen^c prof. D.P. Grigor'yevym.
(Nukatl' Range--Quartz)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KINA, I.Ya.

Morphology and properties of muscovite crystals in the Slyudyanogorsk deposit (Central Urals), Zap.Vses.min.ob-va 93 no.6:662-671 '64.
(MIRA 18:4)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KINA, I.Ya.

Conditions governing the formation of muscovite in the Slyudyano-gorsk deposit. Trudy VSEGEI 108:23-35 '64.

(MIRA 18:2)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

ACC NR: AP7000535

SOURCE CODE: UR/0386/66/004/010/0396/0400
32

AUTHOR: Volkenshteyn, N. V.; Dyakina, V. P.

ORG: Institute of Physics of Metals, Academy of Sciences SSSR (Institut fiziki metallov Akademii nauk SSSR)

TITLE: Singularities of transverse magnetoresistance of single-crystal gadolinium

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniya, v. 4, no. 10, 1966, 396-400

TOPIC TAGS: gadolinium, magnetoresistance, galvanomagnetic effect, temperature dependence, magnetic structure

ABSTRACT: The purpose of the investigation was to ascertain the effect of a change in the magnetic structure on the anisotropy of the transverse magnetoresistance of single-crystal gadolinium in a wide range of temperatures. The tests were made on cylindrical samples cut along the [1010] axis, with a ratio of room-temperature resistance to helium-temperature resistance equal to 20. The isotherms of the transverse magnetoresistance were measured in fields sufficient to produce saturation and extrapolated to zero field in the sample, so as to exclude the resistance variations due to the paraprocess. The tests showed that the transverse saturation magnetoresistance has a complicated temperature dependence and is strongly anisotropic. From the measured temperature dependence of the transverse saturation magnetoresistance in fields parallel to [0001] and [1120] it is deduced that the magnetic anisotropy con-

Card 1/2

J 10945-67

ACC NR: AP7000535

stant has a maximum near 120K and vanishes at 230K. Rotation diagrams show that above 250K the transverse magnetoresistance is negative in all directions, and its absolute value is minimal in the easy-magnetization direction. Below 130K, the rotation curves show maxima connected with the appearance of the "cone" of easy magnetization axes. The results show also that a correlation exists between the temperature dependence of the galvanomagnetic effect and the magnetic structure. Orig. art. has: 3 figures.

SUB CODE: 20 / SUBM DATE: 06Aug66 / ORIG REF: 003 / OTH REF: 002

Card 2/2 5/7

DYAD'KOV, A.M.

112-3-5958

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 3,
pp. 129-130

AUTHOR: Dyad'kov, A.M.

TITLE: Broadening the Field of Application of Power Regeneration
in Electric Railroads (O rasshireniu sfery
primeneniya rekuperatsii energii na elektricheskikh
zheleznykh dorogakh)

PERIODICAL: Sb. nauch. tr. Tomskiy elektromekhan. in-t inzh. zh.-d.
transp., 1955, Vol. 21, pp. 36-42

ABSTRACT: The advantages of power regeneration in electrified railroads are listed, and its greatly limited application in practice is noted. This situation is due to the existing opinion that power regeneration can be applied only in sections of the railroad where the direct-current traction substations are provided with converters able to absorb the power regenerated by the locomotives. At the present time, only the motor-generator fulfills the function of

Card 1/3

112-3-5958

Broadening the Field of Application of Power in Regeneration in
Electric Railroads

such a converter. Since the mercury-arc rectifier has many advantages over the motor-generator, however, rectifiers are used in substations for all level stretches of railroad giving up the regenerative braking. Meanwhile, according to computations and experimental data, surplus power (power not used by other electric locomotives) comprises only 3-3.5% of all the regenerated power. Further analysis of electric railroad operation showed that the use of regenerative braking should not be rejected on the basis of absence of inverters or units absorbing power in the substations, since in many cases the surplus power can be reduced to zero. To this end, it is necessary to develop measures of an organizational and technical nature: compiling of computations substantiating the technical possibility and economic expediency of power regeneration for a given stretch of railroad; developing technological techniques for control of trains (establishing the locations where regeneration could be applied, positioning the brake handle in the locomotive, etc.); training locomotive engineers for optimum application of power regeneration to control

Card 2/3

112-3-5958

Broadening the Field of Application of Power in Regeneration in
Electric Railroads

of locomotives, etc.). In the event computations indicate that there are advantages to employing power regeneration, and at the same time a surplus of regenerated power will appear, the use of air braking should be considered in certain cases. If the graphic timetable of the train is seriously affected, then regenerative braking must be rejected at this time, which should not cause difficulties if the locomotive engineer has radio contact with the power dispatcher and the train schedule dispatcher.

I.V.I.

ASSOCIATION: Tomsk Electro-Mechanical Institute for Railroad
Engineering (Tomskiy elektromekhan. in-t inzh. zh.-d.
transp.)

Card 3/3

ROZENFEL'D, Vitaliy Yevgen'yevich; ISAYEV, Igor' Petrovich; SIDOROV,
Nikolay Nikolayevich; DYAD'KOV, A.M., kand. tekhn. nauk,
retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; BOBROVA,
Ye.N., tekhn. red.

[Electric traction] Elektricheskaya tiaga. Moskva, Transzheldoriz-
dat, 1962. 346 p. (MIRA 16:1)
(Electric railway motors)

DYAD'KOV, A.M., kand. tekhn. nauk, dotsent

Roller station for stationary testing of electric locomotives.
Trudy Ural. elektromekh. inst. inzh. zhel. dor. transp. no.5:
115-126 '62. (MIRA 17:8)

DYAD'KOV, A.M.

AUTHOR: None Given

3-58-4-21/34

TITLE: A Conference of Readers of "Vestnik Vysshey Shkoly" in Sverdlovsk (Konferentsiya chitateley "Vestnika vysshey shkoly" v Sverdlovске)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 4, page 64 (USSR)

ABSTRACT: The article contains criticism of professors and high school teachers in Sverdlovsk on the contents of this periodical.

Professor P.Z. Petukhov of the Ural'skiy politekhnicheskiy institut (Ural Polytechnical Institute) pointed out that the journal plays up the positive experience more than the deficiencies of the higher schools.

Professor A.Ye. Trop of the Sverdlovskiy gornyy institut (Sverdlovsk Mining Institute) complained that the editor, when publishing controversial material, does not give his opinion.

Dotsent A.M. Dyad'kov of the Elektromekhanicheskiy institut inzhenerov zheleznodorozhnogo transporta (Electromechanical Institute of RR Engineers) dealt with the problems of a more precise organization of the higher school work.

Card 1/2

3-58-4-21/34

A Conference of Readers of "Vestnik Vysshey Shkoly" in Sverdlovsk

Professor Z.V. Gorbunova of the Sverdlovskiy meditsinskiy institut (Sverdlovsk Medical Institute) spoke on the same subject.

The graduate student, Ye.I. Kazantsev, of the Ural Polytechnical Institute suggested that a special section of the journal be devoted to articles on the work of the Party, Profsoyuz and Komsomol organizations of vuzes.

Dotsent P.O. Kosyakov of the Sverdlovskiy yuridicheskiy institut (Sverdlovsk Law Institute) pointed to the section "From the Practice of the Chair of Social Sciences", which contains material of benefit to the chairs, and expressed the wish that this section be developed.

Professor N.I. Reshetin of the Ural Polytechnical Institute spoke on the problems raised by "Letter I-100". Other speakers came forward with critical remarks on the form of contact between editor and reader, on the reviewing of articles, etc.

The editorial staff of the journal has studied the remarks and is adopting the recommendations.

AVAILABLE: Library of Congress
Card 2/2

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KOV, A.M., kand. tekhn. nauk, dotsent; KUDMOV, V.I., inzh.

Traction characteristics of electric locomotives with compound
excitation. Trudy Ural. elektromekh. inst. inzh. zhel. dor.
transp. no.5:78-90 '62. (MIRA 17:8)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

ABRAKOV, L.V.; BARANOVA, A.G.; DYMARSKIY, L.Yu.; DYAD'KOVA, A.M.;
RABKOVA, L.M.; RAKOV, A.I.; SEREBROV, A.I.; SMIRNOVA, I.N.;
KHOLDIN, S.A.; TSEL', Ye.A.; CHEKHARINA, Ye.A.; SHABASHOVA,
N.Ya.; SHANIN, A.P.

Reviews. Vop. onk. 11 no.7:116-126 '65.

(MIRA 18:9)

MI'RENSKIY A.V.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

ACC NR: AP6025661

(A)

SOURCE CODE: UR/0413/00/000/000/

INVENTOR: Venediktov, V. A.; Vasil'yev, Yu. A.; Popov, N. I.; Markelov, Ye. V.; Veysilat, M. Kh.; Dyakov, A. P.; Shishakov, K. I.; Yusim, L. Ya.; Skvortsov, A. M.; Kireyev, Yu. A.; Guzanov, G. N.; Gerasimovich, S. G.

ORG: None

TITLE: A fluid device for damping torsional vibrations. Class 47, No. 183539 [announced by the Turbine Motor Plant (Turbomotornyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 126-127

TOPIC TAGS: vibration damping, hydraulic device, torsional vibration

ABSTRACT: This Author's Certificate introduces a fluid device for damping torsional vibrations. The unit consists of a housing with a hole for fluid delivery and a movable annular disc with a compensating cavity set inside the housing. The installation is designed for more reliable and simpler filling of the unit with fluid by providing the faces of the disc or the internal surface of the housing opposite the hole for fluid delivery with at least one annular groove connected to the compensating cavity by channels in the disc body.

UDC: 621-752.2

Card 1/2

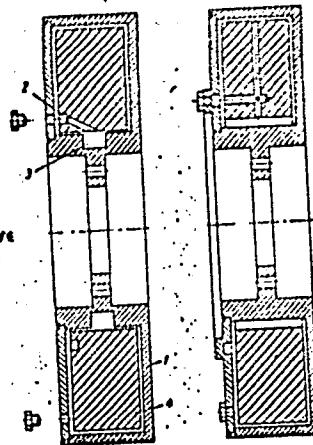
"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

ACC. NR.: AP6025661

- 1---housing
- 2---annular groove
- 3---compensating cavity
- 4---disc

SUB CODE: 132c SUBM DATE: 28Apr65



Card 2/2

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

DYADKOV, S.

DYADKOV, S.

Fysikalni zaklady elektrickych a elektronickych mereni. [Vyd. 1] Praha, Statni pedagogicke nakl., 1953. (Ucебни тексты высоких школ) [Physical Fundamentals of Electric and Electronic Measurements. Vol. 2 diagrs.]

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

DYADKOV, SERGEY-DR.

"Riflessioni di onde ultracorte per discontinuità della pressione
di vapore nelle troposfere" and "Analoga per la trasformazione di (Fourier) e
metodo meccanico per la rappresentazione del processo di interezione" - Papers
submitted at the Third International Congress and Exhibition of Electronics and
Nuclear Energy, Rome, Italy, 22 Jun 57 Jul 57.

22894

S/109/61/006/004/008/025
E140/E135

9,3200 (1147, 1161)

AUTHOR: Dyad'kov, S.

TITLE: Resonant transforms and their properties

PERIODICAL: Radiotekhnika i elektronika, Vol.6, No.4, 1961,
pp.568-578TEXT: The article constitutes a resume of the author's
previously published work (Refs. 1, 2 and 4). Transforms of the
form

$$D_\omega(t) = \int_0^t f'(\tau) e^{-j\omega\tau} d\tau \text{ and } F_\omega(t) = \int_0^t f(\tau) e^{-j\omega t} d\tau$$

and their images in the complex plane are discussed. The purpose
of the article is to popularise these theorems without presenting
any new original results. It is shown that these transforms can
be applied for representing the oscillation process in a loss-free
circuit, to the input of which a voltage is fed which corresponds
to the investigated function $f(\tau)$ and the resonant frequency of
which is equal to the frequency of the transform ω . These

X

Card 1/2

22894

Resonant transforms and ...

S/109/61/006/004/008/025
E140/E135

transforms can also be applied for circuits with losses and non-linear resistances. In the final part of the paper applications of the resonant transform to the solution of transient processes are outlined. There are 9 figures and 5 references: 4 Soviet-bloc and 1 German.

SUBMITTED: May 13, 1960

Card 2/2

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

IND KOV, S.M. (Czech)

Г. М. Бартине

Возможное излучение первичных радионюклиев в атмосфере СССР и наблюдение за ними с 1950 по 1957 гг.

В. В. Капиринский

Методы биохимического определения радионуклидов в атмосфере планеты Земли.

Г. В. Воронков,

Ю. В. Кумиринский

Изображение структуры ядерного управления с помощью спиральных пакетов нейтронов присутствия в атмосфере

II зона
(с 10 до 18 часов)

Е. А. Федоров,
А. Д. Петровский

О буднических гидрофизических условиях в горах
распределения радионуклидов в атмосфере

С. Н. Данилов (Киевская)

Изучение эффекта Давыдова третьего звонка
искусственного спутника Земли.

III

В. А. Загуданов

Излучение пульса промежуточной зоны в атмосфере

Н. К. Петров

Сообщение для II по наблюдению за станцией Солнечного Сигнала на первом Межпланетном
телефизионном пути.

Н. С. Зоринов,

А. В. Чубаров

Отражение радионюклидов радиотехнического дипольного
излучения

II зона
(с 18 до 22 часов)

В. С. Хантад (США)

Применение трансформера распространения УКВ
для вской концептуальной радиосвязи и телевидения

Н. Н. Трофимов

Излучение дальнего приема телевидения в
другие сигналы на УКВ.

Н. Ф. Гриш

Данный в определенный прием телевидения сиг-
налов

Report submitted for the Centennial Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in A. S. Popov (VEBRI), Moscow,
8-12 June, 1959

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

S. M.
Совместное заседание с темой распространения радиочастот

А. В. Присяж.
В. Ф. Гуков

Некоторые вопросы теории радиочастотного приема при различных распределениях УКВ

А. В. Попов,
Г. И. Сидоров,
Н. П. Логинов

Экспериментальное исследование радиочастотного приема при различных трансформаторах распространения УКВ

(с 12 до 16 часов)

В. Ф. Неструев

Однотрехфазные антены обнаруживают выпадение гибкого кабеля на фоне шума

Н. А. Денисов

Погрешности, возникающие в измерителе интегрального теплового излучения

0 часов
(с 10 до 16 часов)

44

С. Н. Демин (Чебаковка)

Рассеяние радиоволнами в атмосфере за пределами

А. Г. Дорфман

Расчет частотных характеристик некоторого спектра излучения

А. Е. Венев

К расчету первичных процессов при частотной модуляции

10 часов
(с 10 до 16 часов)

А. А. Михайлов

Активно-реактивные радиометры излучения пылевых

В. В. Штебеневский,

Г. С. Масленников

Двухрезонаторные и контуроколебательные излучатели

В. М. Туровер

К вопросу об основоположниках приема радиочастотного излучения электрическими колебаниями

45

Report submitted for the Centennial Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in A. S. Popov (VKEF), Moscow,
8-12 June, 1959

16,4200

8/194/62/000/010/001/084
A154/A126

AUTHOR: Dyad'kov, Sergey

TITLE: Elastic models of resonance transformations and Fourier transformations

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962,
3 - 4, abstract 10-1-5ya (Některé probl. z teorie obvodu. Praha,
ČSAV, 1961, 109 - 138; summaries in Czechoslovakian, English and
German)

TEXT: The work gives the determination of the resonance transformation of a given process, and the connection between the resonance-transformed functions and the spectral functions of this process, as well as their relations to varying current and voltage amplitudes in an oscillation circuit whose input value is determined by the given process. A description is given of the main geometrical properties of images of resonance-transformed functions, which are constancy of the image length and the dependence of the curvature radius on the angular transformation frequency. These properties are similar to the properties

Card 1/2

Elastic models of resonance transformations

S/194/62/000/010/001/084
A154/A126

of the bending line of elastic plates, and can, therefore, be used in designing elastic models of the given process; with the aid of such models the resonance-transformed and spectral functions of the process can be determined. A method is given for calculating and designing the elastic models, and instruments are described in which the models can be used. Methods are given for simulating spectral functions and for solving the Fourier integral with the aid of elastic models.

Z.G.

[Abstracter's note: Complete translation]

Card 2/2

8/044/63/000/001/008/053
A060/A000

AUTHOR: Dyad'kov, Sergey

TITLE: Elastic analogs of resonance transforms and Fourier transforms

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1963, 11, abstract 1B56
(Některé probl. z teorie obvodu, Praha, ČSAV, 1961, 109 - 138;
summaries in Czech, English, German)

TEXT: The author studies the analogy between the Fourier transform and the relation existing between the electromotive force applied to a series oscillating circuit and the potential across the inductance. Elastic analogs of spectral functions are also cited. The indicated analogies make it possible to establish certain useful properties of a transform.

P.I. Kuznetsov

[Abstracter's note: Complete translation]

Card 1/1

D'YADKOV, V. G.

"Coefficients of Friction and Their Dependence on the Direction of Movement." Sub 20 Dec 51, Moscow Order of Labor Red Banner Inst of Steel imeni I. V. Stalin

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

PA 1/50155

DYAD'KOVA, A. M.

USSR/Medicine - Tumors
Blastogenic Substances

Jul/Aug 49

"An Attempt in the Isolation of the Malignant Agent From Tumors Caused by Blastogenic Substances," A. M. Dyad'kova, Lab of Endogenous Factors, Inst of Oncol, Leningrad, 32 pp

"Arkh Patol" No 4, pp 23-26.

In experimenting with rats, author did not succeed in isolating the malignant agent from tumors caused by blastogenic substances and does not consider this factor an exogenous cause. Data obtained agree with results of experiments by

1/50155

USSR/Medicine - Tumors (Contd)

Jul/Aug 49

Sil'ber. This problem and the nature of this factor require further study. Sci Dir, Lab of Endogenous Factors: I. M. Sharabai, Corr Mem, Acad Med Sci USSR. Dir, Inst of Oncol: A. I. Serebrov, Corr Mem, Acad Med Sci USSR.

1/50155

DYAD'KOVA, A. M.

Jun 53

USSR/Medicine - Cancer

"The Problems of the Detection of Specific Antigens in Some Tumors of Animals and Human Beings," A. M. Dyad'kova, Lab of Expl Cancer, Inst of Oncology, Acad Med Sci, USSR

Zhur Mikro, Epid, i Immun, No 6, pp 70-73

L.A. Zil'ber's method for detecting specific tumor antigens by producing anaphylaxis desensibilization was checked. The presence of specific antigens was established by this method in the following type tumors: Brown-Pierce cancer of rabbits, rabbit cancer produced by 9, 10-dimethyl-1,2-benzanthracene, spontaneous adenocarcinoma of mice, and human cancer of the breast. Both active and passive sensitization were used prior to desensibilization.

267T30

DYAD'KOVA, A.M.

DYAD'KOVA, A.M.

Blastomogenic effect of 9,10-dimethyl-1,2-benzanthracene on rats.
Trudy AMN SSSR 21 no.4:141-149 '52. (MIRA 10:8)

1. Iz laboratorii po izucheniyu kantserogennykh veshchestv (nauchn. rukov. - chlen-korrespondent AMN SSSR prof. L.M.Shabed) Instituta onkologii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.I. Serebrov)

(BENZANTHRACENTHS, effects,

9,10-dimethyl-1,2-benzanthracene, blastomogenic action)

(CARCINOGENS,

9,10-dimethyl-1,2-benzanthracene)

DYAD'KOVA, A.M.

GEL'SHTEYN, V.I.; DYAD'KOVA, A.M.

Further data on oncologic characteristics of laboratory brown mice of the CG₅₇ line. Vop.onk.l no.2:32-39 '55. (MLRA 9:1)

1. Is laboratorii eksperimental'noy onkologii (zav. Chl.korr. AMN SSSR prof. L.M.Shabad) Instituta onkologii AMN SSSR (dir. Chl.korr. AMN SSSR prof. A.I.Serebrov)
(NEOPLASMS, experimental,
oncol.characteristics of brown mice CG₅₇)
(MICE,
brown mice CG₅₇, oncol.characteristics)

DYAD'KOVA, A.M. (Leningrad, Kolpinskaya ul., d.27, kv. 21)

Experimental morphological investigations of various stages of development of filtrable fowl sarcoma. Vop.onk. 1 no.4;12-21 '55.
(MLRA 10:1)

1. Iz laboratorii eksperimental'noy onkologii (zav. chlen-korr. AMN SSSR prof. L.M.Shabad) Instituta onkologii AMN SSSR (dir. chlen-korr. AMN SSSR prof. A.I.Serebrov)

(SARCOMA, experimental,
chicken filtrable sarcoma, histol. aspects of various
stages of develop.)

(NEOPLASMS, experimental,
sarcoma, chicken filtrable, histol. aspects of various
stages of develop.)

EXCERPTA MEDICA Sec.16 Vol.6/3 Cancer March 58
DYADKOVA, A. M.

1029. *The cancer characteristics of mice of the low-cancer strain 'S_b, Black' (Russian text)*
Dyadkova A. M. and Medvedev N. N. Inst. of Oncol., USSR Acad. of Med. Sci.,
Leningrad Vop. Onkol. 1956, 2/2 (201-203)

In 9 yr. 28 generations (from the 58th to the 86th) of 'S_b, Black' mice were reared in
the experimental cancer laboratory of the above-mentioned institute. In this period,
autopsy was performed on 985 mice, the ages of which ranged from 4 to 24 months.
Only one male had cancer of the skin. No other form of cancer, not even breast can-
cer, was noted.

Prigozhina - Moscow

NECHAYEVA, I.D.; DYAD'KOVA, A.M.; GORYUKHINA, T.A.; TSEL', Ye.A. (Adres
avtorov: Leningrad, 129, 2-ya Berezovaya alleya, dom, 3. Institut
Onkologii Akademii meditsinskikh nauk SSSR.

Tenth session of the Academy of Medical Sciences of the U.S.S.R.
Vop.onk. 2 no.4:493-502 '56. (MLB 9:12)

1. Institut Onkologii Akademii meditsinskikh nauk SSSR.
(CANCER)

DYAD'KOVA, A.M. (Leningrad, 110, Kolpinskaya, ul., d. 27, kv. 21.)

Chicken lymphomatosis and its relation to sarcomatosis [with
summary in English] Vop. onk., 2 no.6:664-670 '56 (MLRA 10:4)

1. Iz laboratorii eksperimental'noy onkologii (zav.-chl.-korr.
AMN SSSR prof. L.M. Shbad) Instituta onkologii AMN SSSR (dir.-chl.-
korr. AMN SSSR prof. A.I. Serebrov)
(FOWLS, DOMESTIC, dis.

lymphomatosis in chickens, relation to sarcomatosis)
(LYMPHOMA

avian lymphomatosis in chickens, relation to sarcomatosis)
(SARCOMA

sarcomatosis in chickens, relation to avian lymphomatosis)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

Dyad'kova, A.M.

VOL'FSO^N, N.I.; DYAD'KOVA, A.M.; KOROSTELEVA, T.A.; SHABAD, L.M.

Examination of the possible blastomogenic activity of extracts from tumor tissues. Vop.onk. 3 no.5:540-546 '57. (MIRA 11:2)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chl-korr. AMN SSSR prof. L.M.Shabad) Instituta onkologii AMN SSSR (dir. - deystv. chl. AMN SSSR prof. A.I.Serebrov). Adres avtorov:
Leningrad, P-129, 2-ya Berezovaya alleya, d.3, Institut onkologii AMN SSSR.

(NEOPLASMS, exper.
transpl. in animals with human tumor extracts)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KOVA, A.M.

Detection of specific antigens in filterable and nonfilterable chicken
sarcoma by precipitation in agar. Vop. onk. 5 no.12:648-654 '59.

(MIRA 13:12)

(ANTIGENS AND ANTIBODIES)

(TUMORS)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KOVA, A.M.

Comparative studies on chicken sarcoma antigens by means of the
agar precipitation method. Vop. onk. 6 no. 11:60-66 N '60.
(MIRA 14:1)
(TUMORS)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

DYAD'KOVA, A. M.

Cultivation of Rous sarcoma virus and of tissues of various
chicken sarcomas in chick embryos. Vop. onk. 8 no.7:15-24 '62.
(MIRA 15:7)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasl.
deyat. nauki, prof. N. V. Lazarev) Instituta onkologii AMN SSSR
(dir. - deystv. chl. AMN SSSR, prof. A. I. Serebrov)

(TISSUE CULTURE) (VIRUSES) (CANCER RESEARCH)

DYAD'KOVA, A.M.; LOTOSH, Ye.A.

Oncological characteristics of a new line of laboratory mice.
Vop. onk. 8 no.11:46-47 '62. (MIRA 17:6)

1. Iz laboratorii eksperimental'noy onkologii (zav.- zasluzhennyy
deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN SSSR
(dir.- deystvitel'nyy chlen AMN SSSR, prof. A.I. Serebrov).

VOL'FSON, N.Z.; LYAD'KOVA, A.M.

Some results of the work of methodological and theoretical conferences
and methodological seminars of the Institute of Oncology of the
Academy of Medical Sciences of the U.S.S.R. Vop. onk. 11 no.5:117-119
'65. (MIRA 18:8)

1. K. Institutu onkologii AMN SSSR (dir. - direktor'nyy chlen
AMN SSSR prof. A.I.Srebrov).

DYADKOVICH, M., inzh. (Chekchoslovatskaya Respublika).

Mechanized mining of very thin coal seams of Ostrava-Karvina coal-fields in Czechoslovakia. Izv. vys. ucheb. zav.; gor. zhur. no.2; 12-20 '58. (MIRA 11:5)

(Czechoslovakia--Coal mines and mining)
(Coal mining machinery)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYAD'KOVSKIY, Yustin Evdokimovich, 1784-1841

Works; problems of general pathology
Moskva, Medgiz, 1954. 390p.

RB6. D52

1. Pathology- Collected works.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

DYADYUSHA, G.G.

Electronic spectra and structure of symmetrical organic compounds. Part 3: Substitutions in chromophore of symmetrical polymethine dyes. Ukr. khim. zhur. 31 no. 11: 1171-1177 '65 (USSR 19:1)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.

DYADYUSHA, G.G.

Electronic spectra and structure of symmetrical organic compounds. Part 4: Assymetrical dyes as derivatives of symmetrical ones. Ukr. khim. zhur. 31 no. 12:1293-1301 '65
(MIRA 19:1)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR. Submitted May 14, 1964.

DYADYK, I.; BARANENKO, I.

For the shortest workday in the world. Sov.profsoiuzy 16
no.10:24-27 My '60. (MIRA 13:6)

1. Predsedatel' Stalinskogo soveta narodnogo khozyaystva (for
Dyadyk). 2. Sekretar' Stalinskogo oblastnogo soveta profsoyuzov
(for Baranenko).
(Stalino Province--Hours of labor)

SOV/96-58-9-16/21

AUTHORS: Dyadyakin, B.V. (Engineer) and Lel'chuk, V.L. (Candidate of Phys.Math. Sciences)

TITLE: Heat-transfer from the Walls to a Turbulent Flow of Air in a Tube with Large Temperature Differences, and a Method of Calculating the Wall Temperature (Teplootdacha ot stenki k turbulentnomu potoku vozdukh vnutri truby pri bol'sikh temperaturnykh naporakh i raschet temperatury stenki)

PERIODICAL: Teploenergetika, 1958, Nr 9, pp 74 - 79 (USSR)

ABSTRACT: This article describes work undertaken to determine local heat-transfer coefficients and tube wall-temperatures when gas flows inside a strongly heated tube. The tests were carried out with a turbulent flow of air in a tube of steel Kh-18-N9T of 17.82 mm internal diameter, 2620 mm long, the tube being heated electrically. The measures necessary to ensure good thermal insulation of the tube and reliable determination of local thermal losses are described, also the instrumentation. Five series of tests were made with mean wall-temperatures ranging from 160 - 300°C. The maximum wall-temperature was 1,094°C. Card 1/4 The inlet-air temperature was always 15 - 28°C and the

SOV/96-58-9-16/21

Heat-transfer from the Walls to a Turbulent Flow of Air in a Tube
with large Temperature Differences, and a Method of Calculating
the Wall Temperature

outlet temperature did not exceed 579°C. The Reynolds number at the inlet section ranged from 1×10^5 to 6.4×10^5 and the Mach number from 0.34 - 0.65. The equations used to calculate the flow characteristics and local heat-transfer coefficients are given. The amount of heat generated per unit length of tube increased somewhat in the direction of flow, due to electric heater's increase of specific resistance with temperature. Changes in the local and mean heat-transfer coefficients along the length of the tube for certain conditions are shown in Fig 1. The test data obtained are compared with those of other authors and it will be seen from Fig 2 that agreement with Il'in's work is good but that the NACA report of 1951 gives lower results. However, within the range of Reynolds numbers 25,000 - 400,000 formula 6 is accurate enough. Formulae 7 and 8 represent the experimental data for local heat-transfer coefficients and mean coefficients to within $\pm 5\%$. In Figs 4 and 5, all the experimental data on local

Card 2/4

SOV/96-58-9-16/21

Heat-transfer from the Walls to a Turbulent Flow of Air in a Tube
with large Temperature Differences, and a Method of Calculating
the Wall Temperature

and mean heat transfer coefficients are compared with formulae 7 and 8. It will be seen that the formulae are generally applicable and that they represent the experimental results with considerable accuracy. This is important, because when the wall temperature is very high and the temperature drop from the wall to the gas is also high, a relatively small error in determination of the temperature difference may lead to the tube running dangerously hot. The article provides a simple method

Card 3/4

SOV/96-58-9-16/21

Heat-transfer from the Walls to a Turbulent Flow of Air in a Tube
with large Temperature Differences, and a Method of Calculating
the Wall Temperature

of calculating the change of wall temperature along the
length of a tube with the given thermal load distribution
and given gas conditions at inlet.

There are 6 figures, 5 literature references (3 Soviet,
2 English)

ASSOCIATION: Vsesoyuznyy teplotekhnicheskiy institut (All-Union
Thermo-technical Institute)

1. Gas flow--Thermodynamic properties 2. Heat transfer--Mathematical
analysis 3. Temperature--Determination 4. Mathematics--Appli-
cations

Card 4/4

DYADYAKIN, B. V., Candidate Tech Sci (diss) -- "Experimental investigation of thermal emission from a pipe wall to a gas, and of the hydraulic resistance in high-temperature heads". Moscow, 1959. 15 pp (Gosplan USSR, Soyuzglavenergo, All-Union Order of Labor Red Banner Heat-Engineering Sci Res Inst im F. E. Dzerzhinskiy), 130 copies (KL, No 23, 1959, 166)

10.4100

11.9200

87505
S/12⁴/60/000/012/008/009
A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 12, p. 141, # 16294

AUTHORS: Lel'chuk, V.L., Dyadyakin, B.V.

TITLE: The Heat Emission From the Wall to a Turbulent Air Stream Within a Pipe and the Hydraulic Resistance at High Temperature Pressures

PERIODICAL: V sb.: Vopr. teploobmena. Moscow, AN SSSR, 1959, pp. 123-192

TEXT: An experimental investigation was conducted on the effect of the temperature factor on the heat exchange and resistance at the turbulent air stream in pipes. The authors present in their article a detailed description of the experimental method and the experimental unit. The experiments were conducted with a pipe of 17.82 mm in diameter and 2,620 mm length. The pipe was heated by direct current supplied to its ends. The wall temperature was measured by thermocouples applied to the external surface and insulated from the pipe wall by thin mica layers. For measuring the hydraulic resistance, the pipe had 14 bores for sampling the statical pressure. The R-number range ran from 1.17×10^5 to 6.45×10^5 , that of the temperature factor T_{st}/T from 1 to 2.5. As an experimental result, an empirical formula was obtained taking into account the temperature factor effect:

Card 1/3

87505

S/124/60/000/012/008/009
A005/A001

The Heat Emission From the Wall to a Turbulent Air Stream Within a Pipe and the Hydraulic Resistance at High Temperature Pressures

$$N = c R^m P^{0.4} \left(\frac{T}{T_{st}} \right)^p,$$

where c , m , and p are functions of x/D ; the author propose to adopt their values from the graphs presented. According to the expectations, the values of c and m remain practically constant and equal to 0.025 and 0.8 respectively for $x/D > 10$. But the dependence of exponent p on x/D is preserved over the entire length of the pipe up to $x/D = 133$. In other words, the authors state that no thermal stabilization is observed at the heating of a gas in pipes at great temperature differences. The latter circumstance is unexpected. Besides the measurement of heat emission, the investigation was conducted of the temperature factor effect on the hydraulic resistance. As a result it was obtained that the local resistance coefficient is

$$\xi = \frac{0.19}{R^{0.2}} \left(\frac{T}{T_{st}} \right)^j,$$

where exponent $j = f(x/D)$ varies from -0.16 to +0.16 with the variation of x/D from

Card 2/3

87505
S/124/60/000/012/008/009
A005/A001

The Heat Emission From the Wall to a Turbulent Air Stream Within a Pipe and the Hydraulic Resistance at High Temperature Pressures

from 11 to 70; for $x/D > 70$, its value remains constant. The article is completed by detailed tables of the primary experimental data and their processing. There are 8 references.

V.V. Kirillov

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

Dyadicin, B. V.

SOV/349

24(6) FALSE I BOOK EXPLOITATION

Moscow. Yatsenyuk Toplotnicheskij Institut
Toplotnicheskij topograficheskij nauchno-issledovatel'skij institut
sbornik statej. (Heat Exchange Under High Thermal Loads and Other Special
Conditions). Collection of Articles. Moscow, Gosenergizdat, 1959. 135 p.
4,000 copies printed.

Ed. (title page): A. A. Armand. Ed. (inside book): I. K. Karibasyan. Tech.
Ed.: G. I. Matyshev.

PURPOSE: The book is intended for personnel of scientific research institutes,
planning and design organisations, and for power engineers.

COVERAGE: This collection of 9 articles presents the results of heat exchange under
high pressure and other special conditions as analyzed. Attention is directed
to special cases such as heat exchange from wall to steam, including cases
of ordinary and surface boiling; heat transfer to steam and to air under
critical parameters; heat exchange from pipe wall to gas under high pressure; and
the hydraulic resistance of a heated tube. References are given at the end of
each article.

2. Doroobshuk, V. Ye., and P. P. Frid. Investigation of Critical Heat
Loads 23
3. Doroobshuk, V. Ye., V. L. Lezhnik, and V. V. Modnikova. Heat Ex-
change to Water Under High Pressure 30
4. Armand A. A., S. S. Tikhonov, and N. S. Kon'kov. Investigation of
Heat Exchange From Wall to Steam Near the Critical State 41
5. Trubachev, G. G. Experimental Investigation of the Mechanics of
Surface Boiling 51
6. Doroobshuk, V. Ye., and V. L. Lezhnik. Experimental Investigation of
Heat Exchange From Tube Wall to Gas at High Temperature 69
7. Lezhnik, V. L., and B. V. Dyadyukin. Experimental Determination of
Hydraulic Resistance With Turbulent Flow of Air in a Heated Tube 91
8. Doroobshuk, V. Ye., and P. P. Frid. Investigation of Heat Radiation
in Annular Channels 101
9. Armand A. A. Calculation of Transient Processes in Heat Exchangers 113

AVAILABLE: Library of Congress (QC30.M6)

SOV/349
5-60

Card 3/9

VY A VYAKIN, B. V.

PLATE 1 BOOK EXPLOITATION

Sov7/3201

24(6) Topografiya (Heat-Exchange Problems) Moscow, 1959. 237 p. Errata slip.
 Akademiya Nauk SSSR. Energeticheskiy Institut
 Inserted. 2,000 copies printed.

Sup. Ed. M.I. Mikhayev, Academician Ed. of Publishing House G.B. Gorobcov
 Tech. Ed. I.P. Kul'smin.

Purpose. This collection of articles is intended for scientific workers, engineers, and postgraduate students specializing in thermodynamics. In contrast, the collection reviews problems of heat transfer and explores possibilities of scientific heat exchange. The heat exchange theory is outlined, and Russian scientists who contributed to its development are mentioned. Thermal physical properties of some metals and alloys are analyzed, and methods used to determine them presented. Equipment used for measuring thermal conductivity, heat capacity, and thermal viscosity of these metals are discussed. Results of experimental study of the absorption of heat exchange for a water flow in an annular channel are analyzed and the instruments used along with the pilot plant for studying convection heat exchange in contacting immobile fluids are described. Instruments and equipment used for determining the linear expansion of metals, the consumption of a liquid, and the absorption capacity of a surface are also described and illustrated. A number of equations for solving various thermodynamic problems are presented. Each article is accompanied by references, the majority of which are Soviet.

TABLE OF CONTENTS:

Editorial Foreword	3
Nikolayev, M.A. Development of the Science of Heat Exchange During the Last Forty Years	5
Sokol'skiy, P.A., F.I. Kakhnayev, I.M. Peshkin, I.V. Shestopalov, and V.A. Valtshiborov. Thermophysical Properties of Some Molten Metals and Alloys	11
Peshkin, I.M. Heat Capacity of Molten Metals	16
Sidorov, E.A. Radiation and Convection Heat Exchange in an Absorbing Medium	29
Polyanskiy, O.S. Intensification of Heat Exchange for the Flow of Water in an Annular Channel	53
Dolgirev, V.B. and O.I. Polyanskiy. Convection Heat Exchange in Direct Transfer to Sodium-Potassium Alloy in a Pipe	67
Kondratenko, N.S. Average Heat Transfer for a Turbulent Flow of Zirconium Blanks - Lead Alloy in Short Pipes	80
Ivanovskiy, M.M. Accelerated Method for Determining the Coefficient of Average Heat Transfer in a Pipe	100
Afrikanov, E.E. Application of Electronics to the Solution of Problems of Radiant Heat Exchange	113
Lel'chuk, V.I. and B.Y. Dritschal. Heat Transmission from a Wall to a Turbulent Air Flow in a Pipe and the Hydraulic Resistance at High-Temperature Pressure Heads	123
Minakhina, M.G., V.I. Subbotin, P.A. Ushakov, and A.A. Shokhov. Utilization of a Microthermocouple in Studying Heat Transfer	133
Kopilov, I.I.D. Unit for Metallisation Carried out by Sublimation of Metals in a Vacuum	202
Korotkov, Yu.A. Instrument for Measuring the Consumption of a Liquid	206
Bulayev, M.I. Distribution of Velocity and Temperature for a Turbulent Liquid Flow in a Circular Pipe	208
Brunstalov, B.A. Instrument for Determining the Absorption Capacity of a Surface	211

DYADYCHENKO, I.P.

Blagoustroistvo raionnykh tsentrov i rabochikh poselkov [Welfare of the regional centres and the workers' villages]. Moskva, Ministerstvo kommu, khoz-va RSFSR, 1952. 215 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

DYADYCHEJKO, I. P., Engineer

"An Investigation of the Problems of Making Blocks for City Streets Using the Cupola-Furnace Slags From the Mills in the Gork'iy Region." Cand Tech Sci, Acad Communal Economy imeni K. D. Panfilov, 17 January 1955. (VI, 7 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational SO: Sum. no 596, 29 Jul 55

DYADYK, I.I.

Eliminate all accidents in coal mines. Bezop. truda v prom. l no.12:
6-8 D '57. (MIRA 12:3)

1. Predsedatel' Stalinskogo sovnarkhoza.
(Coal mines and mining--Safety measures)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7

DYADYK, I.J.

Using new methods. Mast. ugl. 7 no. 5:19-20 My '58. (MIRA 11:?)

1. Predsedatel' Stalinskogo sovnarkhoza
(Stalino Province--Coal mines and mining)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411710019-7"

DYADYK, I.I.

Coal mining in Stalino District. Ugol' 34 no.9:1-5 S '59.
(MIRA 12:12)

1. Predsedatel' Stalinskogo sovnarkhoza.
(Stalino Province--Coal mines and mining)
(Russia--Economic policy)

DYADYK, I.I.

Expansion of coal mining in the Donets Economic Region. Ugol'
Ukr. 5 no.12:1-4 D '61. (MIRA 14:12)
(Donets Basin--Coal mines and mining)